

SECRET

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RESEARCH AID

CONSTRUCTION PROJECTS
IN COMMUNIST CHINA
PERFORMED WITH SOVIET ASSISTANCE
1949-57



CIA/RR RA-28

7 April 1958

CENTRAL INTELLIGENCE AGENCY
OFFICE OF RESEARCH AND REPORTS

SECRET

W A R N I N G

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10 April 1958

TO: Holders of CIA/RR RA-28, Construction Projects in Communist China Performed with Soviet Assistance 1949-57, 7 April 1958, SECRET.

The petroleum refinery at Tu-shan-tzu in Sinkiang, located incorrectly on the map inside the back cover, should be located at 44°20' N - 84°51' E.

S-E-C-R-E-T

S-E-C-R-E-T

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CIA/RR RA-28
(ORR Project 47.2015)

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S-E-C-R-E-T

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S-E-C-R-E-T

CONSTRUCTION PROJECTS IN COMMUNIST CHINA
PERFORMED WITH SOVIET ASSISTANCE*
1949-57

Soviet assistance to industrial construction projects has been a significant factor in the rapid industrialization of Communist China since 1949. This assistance has taken the form of two economic credits totaling 1,720 million rubles against which the Chinese Communists have drawn to help pay for imports from the USSR. These imports include equipment for the construction of the 211 major projects which the USSR has committed itself to assist China to construct.** The equipment which the USSR has promised to deliver to China during the period 1949-62 is valued at 8,100 million rubles*** and includes all technical assistance relating to the 211 projects.

Soviet credits and exports of equipment to Communist China during the period 1949-57 may be summarized as follows:

Date of Agreement	Number of Projects Involved	Credits		Value of Equipment Committed for Delivery Through 1962 Under Existing Agreements	
		(Million Rubles)	(Million US \$)	(Million Rubles)	(Million US \$)
February 1950	50	1,200	300	0	0
September 1953	91	0	0	5,200*	1,300*
October 1954	15	520	130	400	100
April 1956	55	0	0	2,500	625
Total	<u>211</u>	<u>1,720</u>	<u>430</u>	<u>8,100</u>	<u>2,025</u>

* Includes value of equipment and technical assistance for the 50 projects covered in the February 1950 agreement.

* The estimates and conclusions contained in this research aid represent the best judgment of ORR as of 1 February 1958.

** Only 205 of the 211 Soviet aid projects are considered by the Chinese Communists to be industrial construction projects. The remaining six involved the construction of research institutes and the renovation or expansion of previously constructed projects. Other announcements indicate that agreements have been signed by which the USSR will assist Communist China on 205 industrial projects and 21 "individual workshops." (See the map, inside back cover.)

*** Rubles may be converted to dollars at the official exchange rate of 4 to 1, which is not necessarily an accurate reflection of the dollar value.

S-E-C-R-E-T

S-E-C-R-E-T

These projects are chiefly in the field of heavy industry and include construction of metallurgical, power, machine-building, chemical, defense, automobile, and tractor-manufacturing plants, petroleum installations, and the like. Assistance by the USSR includes geological surveying, selection of construction sites, designing, supervision of construction-installation work, and, on completion of construction, assistance in the production process of the new plant.

The Chinese Communists originally planned to start construction of 145 projects in the First Five Year Plan, but no more than 131 were begun by the end of 1957. In December 1957, Peking announced that 56 projects had been completed and that 10 more would be in partial operation by the end of the year. With the full completion of these 66 projects, 145 of the 211 projects remain to be completed.

Until the Chinese Communists define the term "Soviet aid projects" and identify many more projects than they have to date, any list which seeks to identify such projects must be considered tentative. Numerous difficulties* attendant on the compilation of the list which follows necessitated an evaluation of firm, probable, or possible for every project considered. Documentation for this list is maintained in the files of the responsible branch.

* For example, the USSR has assisted on hundreds of projects, but most of this assistance has been so minor that it cannot be considered in the category of the 211 "Soviet aid projects." Also, the multiplicity of projects reported to be under construction at one construction site makes it difficult to determine whether the projects should be considered as components of one over-all project or as separate projects. For example, components of the An-shan Iron and Steel Combine -- such as individual blast furnaces -- are reported by the Chinese Communists as separate projects receiving Soviet assistance. The entire Wu-han Steel Combine, on the other hand, is reported to be only one of the earlier 156 projects.

S-E-C-R-E-T

S-E-C-R-E-T

<u>Evaluation</u>	<u>Industry</u>	<u>Installation</u>	<u>Location</u>	<u>Date Started</u>	<u>Date Completed</u>
Firm	Iron and steel	Blast Furnace No. 3	An-shan, Liaoning 41°07'N - 122°57'E	1956	1957
Firm	Iron and steel	Blast Furnace No. 5	An-shan, Liaoning 41°07'N - 122°57'E	1954	July 1955
Firm	Iron and steel	Blast Furnace No. 6	An-shan, Liaoning 41°07'N - 122°57'E	1953	October 1954
Firm	Iron and steel	Blast Furnace No. 7	An-shan, Liaoning 41°07'N - 122°57'E	1953	Early 1954
Firm	Iron and steel	Blast Furnace No. 8	An-shan, Liaoning 41°07'N - 122°57'E	1952	1953
Firm	Iron and steel	Blast Furnace No. 9	An-shan, Liaoning 41°07'N - 122°57'E	1955	1956
Firm	Iron and steel	Blooming Mill No. 2	An-shan, Liaoning 41°07'N - 122°57'E	1955	1956
Firm	Iron and steel	Ferro-Alloy Plant	Kirin, Kirin 43°51'N - 126°33'E	N.A.	Before August 1956
Firm	Iron and steel	Iron Mine, Ore Dressing, and Sintering Plant (Kung-ch'ang-ling)	An-shan, Liaoning 41°07'N - 122°57'E	N.A.	Operational 1956
Firm	Iron and steel	Iron Mine, Ore Dressing, and Sintering Plant (Ta-ku-shan)	An-shan, Liaoning 41°07'N - 122°57'E	1954	1957
Firm	Iron and steel	Iron Mine, Ore Dressing, and Sintering Plant (Tung-an-shan)	An-shan, Liaoning 41°07'N - 122°57'E	1956	1959 (Plan)
Firm	Iron and steel	Medium Plate Mill No. 2	An-shan, Liaoning 41°07'N - 122°57'E	June 1956	1957
Firm	Iron and steel	Rail-Structural Mill (Heavy Rolling Mill)	An-shan, Liaoning 41°07'N - 122°57'E	1952	1953
Firm	Iron and steel	Seamless Tube Mill	An-shan, Liaoning 41°07'N - 122°57'E	1952	1953

S-E-C-R-E-T

<u>Evaluation</u>	<u>Industry</u>	<u>Installation</u>	<u>Location</u>	<u>Date Started</u>	<u>Date Completed</u>
Firm	Iron and steel	Sheet Mill No. 2	An-shan, Liaoning 41°07'N - 122°57'E	1953	1954
Firm	Iron and steel	Steel Works No. 1	An-shan, Liaoning 41°07'N - 122°57'E	August 1953	1955
Firm	Iron and steel	Steel Works No. 2	An-shan, Liaoning 41°07'N - 122°57'E	1954	1956
Firm	Iron and steel	Steel Combine	Pao-t'ou, Inner Mongolian Auton- omous Region 40°36'N - 110°03'E	1957	1962 (Plan)
Firm	Iron and steel	Steel Combine	Wu-han, Hupeh 30°34'N - 114°13'E	1956	1962 (Plan)
Probable	Iron and steel	Precast Reinforced Concrete Products Plant	An-shan, Liaoning 41°07'N - 122°57'E	1951	June 1954
Probable	Iron and steel	Refractory Mate- rials Plant	An-shan, Liaoning 41°07'N - 122°57'E	1954	November 1955
Possible	Iron and steel	Blooming Mill No. 1	An-shan, Liaoning 41°07'N - 122°57'E	May 1955	November 1955
Possible	Iron and steel	Iron Works	Ma-an-shan, Anhwei 31°44'N - 118°29'E	1953	1957 (Plan)
Possible	Iron and steel	Magnetic Ore Dressing Plant No. 2	An-shan, Liaoning 41°07'N - 122°57'E	N.A.	October 1955
Possible	Iron and steel	Ore Dressing Plant No. 2	An-shan, Liaoning 41°07'N - 122°57'E	1955	N.A.
Possible	Iron and steel	Ore Sintering Plant No. 2	An-shan, Liaoning 41°07'N - 122°57'E	1952	1955
Possible	Iron and steel	Steel Combine	Pen-ch'i, Liaoning 41°20'N - 123°45'E	1955	N.A.
Possible	Iron and steel	Steel Combine No. 2	Urumchi, Sinkiang 43°48'N - 87°35'E	1956	N.A.
Firm	Machine Build- ing	Automobile Manufac- turing Plant No. 1	Ch'ang-ch'un, Kirin 43°55'N - 125°15'E	July 1953	July 1956

S-E-C-R-E-T

S-E-C-R-E-T

<u>Evaluation</u>	<u>Industry</u>	<u>Installation</u>	<u>Location</u>	<u>Date Started</u>	<u>Date Completed</u>
Firm	Machine Building	Ball Bearing Plant	Lo-yang, Honan 34°41'N - 112°28'E	September 1955	Partial operation June 1957
Firm	Machine Building	Boiler Plant	Harbin, Heilung- kiang 45°47'N - 126°39'E	October 1954	December 1956
Firm	Machine Building	Condenser Plant	Sian, Shensi 34°16'N - 108°54'E	August 1956	Equipment being installed January 1957
Firm	Machine Building	Electric Cable Factory	Mukden, Liaoning 41°48'N - 123°27'E	September 1953	September 1956
Firm	Machine Building	Electrical Equipment Plant North-east No. 4	Harbin, Heilung- kiang 45°47'N - 126°39'E	1951	Continuing 1954
Firm	Machine Building	Electric Meter and Instrument Plant	Harbin, Heilung- kiang 45°47'N - 126°39'E	April 1954	June 1956
Firm	Machine Building	Electronic Tube Plant	Peking, Hopeh 39°56'N - 116°24'E	August 1955	October 1956
Firm	Machine Building	Heavy Machinery Plant	Fu-la-erh-chi, Heilungkiang 47°15'N - 123°40'E	June 1956	1959 (Plan)
Firm	Machine Building	Heavy Machinery Plant	T'ai-yuan, Shansi 37°52'N - 112°33'E	1950	1958 (Plan)
Firm	Machine Building	Heavy Machine Tool Plant	Wu-han, Hupeh 30°34'N - 114°13'E	1955	Second quarter 1958 (Plan)
Firm	Machine Building	High-Voltage Switch Plant	Sian, Shensi 34°16'N - 108°54'E	September 1956	Installation of equipment to start fourth quarter 1957 (Plan)

- 5 -

S-E-C-R-E-T

S-E-C-R-E-T

<u>Evaluation</u>	<u>Industry</u>	<u>Installation</u>	<u>Location</u>	<u>Date Started</u>	<u>Date Completed</u>
Firm	Machine Building	Machine Tool Plant No. 1	Mukden, Liaoning 41°48'N - 123°27'E	April 1953	December 1955
Firm	Machine Building	Measuring and Cutting Tool Plant	Harbin, Heilung- kiang 45°47'N - 126°39'E	1953	November 1954
Firm	Machine Building	Mining Machinery and Electrical Equipment Plant	Fu-shun, Liaoning 41°52'N - 123°53'E	1953	1955 (Plan)
Firm	Machine Building	Mining Machinery and Equipment Plant	Lo-yang, Honan 34°41'N - 112°28'E	Under- way July 1956	1958 (Plan)
Firm	Machine Building	Motor Vehicle Plant	Wu-han, Hupeh 30°34'N - 114°13'E	N.A.	N.A.
Firm	Machine Building	Oil Refining and Chemical Equipment Plant	Lan-chou, Kansu 36°03'N - 103°41'E	July 1957	Sep- tember 1958 (Plan)
Firm	Machine Building	Petroleum Drilling Equipment Plant (Tung-yung)	Lan-chou, Kansu 36°03'N - 103°41'E	October 1956	Instal- lation of equip- ment to begin 1957 (Plan)
Firm	Machine Building	Pneumatic Tool Plant	Mukden, Liaoning 41°48'N - 123°27'E	July 1952	January 1955
Firm	Machine Building	Radio Equipment Plant	Ch'eng-tu, Szech- wan 30°40'N - 104°04'E	October 1954	1958 (Plan)
Firm	Machine Building	Railroad Equip- ment Plant	Ch'ang-ch'un, Kirin 43°55'N - 125°15'E	October 1955	End 1957 (Plan)
Firm	Machine Building	Steam Turbine Plant	Harbin, Heilung- kiang 45°47'N - 126°39'E	June 1956	1958 (Plan)

S-E-C-R-E-T

<u>Evaluation</u>	<u>Industry</u>	<u>Installation</u>	<u>Location</u>	<u>Date Started</u>	<u>Date Completed</u>
Firm	Machine Building	Steam Turbine Plant	Shanghai, Kiangsu 31°14'N - 121°28'E	Sep- tember 1954	November 1956
Firm	Machine Building	Telecommunications Equipment Manufacturing Plant	Peking, Hopeh 39°56'N - 116°24'E	Feb- ruary 1954	Sep- tember 1957
Firm	Machine Building	Textile Equipment Plant (Ching-wei)	Yu-tz'u, Shansi 37°42'N - 112°44'E	May 1951	August 1954
Firm	Machine Building	Tractor Manufacturing Plant No. 1	Lo-yang, Honan 34°41'N - 112°28'E	Sep- tember 1955	1959 (Plan)
Probable	Machine Building	Automobile Accessories Plant No. 1	Peking, Hopeh 39°56'N - 116°24'E	August 1955	N.A.
Probable	Machine Building	Ball Bearing Plant	Harbin, Heilung- kiang 45°47'N - 126°39'E	1952	January 1953
Probable	Machine Building	Bridge Building Plant	Feng-t'ai, Hopeh 39°51'N - 116°17'E	1953	May 1954
Probable	Machine Building	Electrical Equipment Plant	Mukden, Liaoning 41°48'N - 123°27'E	1955	1956 (Plan)
Probable	Machine Building	Electrode Plant	Kirin, Kirin 43°51'N - 126°33'E	N.A.	1956
Probable	Machine Building	Internal Combustion Engine Plant	Wu-han, Hupeh 30°34'N - 114°13'E	N.A.	N.A.
Probable	Machine Building	Low-Voltage Switch Plant	Mukden, Liaoning 41°48'N - 123°27'E	July 1953	June 1956
Probable	Machine Building	Locomotive and Rolling Stock Plant	Ta-t'ung, Shansi 40°06'N - 113°14'E	August 1957	1960 (Plan)
Probable	Machine Building	Machine Tool Plant No. 1	Tsitsihar, Heilungkiang 47°22'N - 123°57'E	1955	1956 (Plan)

S-E-C-R-E-T

S-E-C-R-E-T

<u>Evaluation</u>	<u>Industry</u>	<u>Installation</u>	<u>Location</u> *	<u>Date Started</u>	<u>Date Completed</u>
Probable	Machine Building	Machine Tool Plant No. 2	Mukden, Liaoning 41°48'N - 123°27'E	1953	1955 (Plan)
Probable	Machine Building	Tractor Manufacturing Plant	Nanking, Kiangsu 32°03'N - 118°47'E	1956	1958 (Plan)
Probable	Machine Building	Tractor Manufacturing Plant	Tientsin, Hopeh 39°08'N - 117°12'E	November 1955	1958 (Plan)
Possible	Machine Building	Aircraft Parts Manufacturing and Repair Plant	Nan-ch'ang, Kiangsi 28°40'N - 115°53'E	1952	N.A.
Possible	Machine Building	Electronic Instruments Plant	Tientsin, Hopeh 39°08'N - 117°12'E	Preparations underway May 1957	N.A.
Possible	Machine Building	Grinding Wheel Plant	Chen-chou, Honan 34°45'N - 113°40'E	Underway July 1957	Partial operation, third quarter 1958 (Plan)
Possible	Machine Building	Heavy Machinery Plant	T'ai-yuan, Shansi 37°52'N - 112°33'E	1950	In partial operation 1953
Possible	Machine Building	Insulating Materials Plant	Sian, Shensi 34°16'N - 108°54'E	1957	1958 (Plan)
Possible	Machine Building	Lathe Plant	Hsiang-t'an, Hunan 27°51'N - 112°54'E	1953	1954
Possible	Machine Building	Lathe Plant	Ta-t'ung, Shansi 40°04'N - 113°20'E	August 1957	N.A.

S-E-C-R-E-T

S-E-C-R-E-T

<u>Evaluation</u>	<u>Industry</u>	<u>Installation</u>	<u>Location</u>	<u>Date Started</u>	<u>Date Completed</u>
Possible	Machine Building	Locomotive and Rolling Stock Plant	Dairen, Liaoning 38°55'N - 121°39'E	July 1956	1958 (Plan)
Possible	Machine Building	Measuring and Cutting Tool Plant	Ch'eng-tu, Szechwan 30°40'N - 104°04'E	May 1956	1958 (Plan)
Possible	Machine Building	Mining Machinery and Repair Plant	Ta-t'ung, Shansi 40°06'N - 113°14'E	1955	N.A.
Possible	Machine Building	Passenger Car Plant	Ch'ang-ch'un, Kirin 43°55'N - 125°15'E	July 1957	1959 (Plan)
Possible	Machine Building	Power Equipment Plant	Harbin, Heilungkiang 45°47'N - 126°39'E	1951	1959 (Plan)
Possible	Machine Building	Steamship Motor Plant	Harbin, Heilungkiang 45°47'N - 126°39'E	N.A.	N.A.
Possible	Machine Building	Turbine Generator Factory	Harbin, Heilungkiang 45°47'N - 126°39'E	Underway December 1957	N.A.
Firm	Electric Power	Hydro Station	A-ma-cha-erh, Heilungkiang (Approx.) 48°52'N - 120°132'E	Survey February 1957	N.A.
Firm	Electric Power	Hydro Station	Hsin-an-chiang, Chekiang (Approx.) 119°14'N - 29°29'E	Underway April 1957	1961 (Plan)
Firm	Electric Power	Hydro Station	I-li-ho, Yunnan (Approx.) 26°00'N - 103°00'E	July 1956	By 1962 (Plan)
Firm	Electric Power	Hydro Station	Lien-yin (opposite Dzhalinda), Heilungkiang (Approx.) 53°29'N - 123°52'E	Being designed August 1956	N.A.

S-E-C-R-E-T

S-E-C-R-E-T

<u>Evaluation</u>	<u>Industry</u>	<u>Installation</u>	<u>Location</u>	<u>Date Started</u>	<u>Date Completed</u>
Firm	Electric Power	Hydro Station	Liu-chia Gorge, Kansu (Approx.) 35°47'N - 102°45'E	1957 (Plan)	1962 (Plan)
Firm	Electric Power	Hydro Station	San-men Gorge, Honan (Approx.) 35°00'N - 111°00'E	April 1957	1961 (Plan)
Firm	Electric Power	Hydro Station	Shang-yu-chiang, Kiangsi (Approx.) 25°54'N - 114°34'E	March 1955	November 1957
Firm	Electric Power	Hydro Station	Ta-feng-man, Kirin 43°43'N - 126°41'E	1948	1959 (Plan)
Firm	Electric Power	Hydro Station	Wu-ch'iang-ch'i, Hunan N.A.	Being plan- ned Dec- ember 1956	N.A.
Firm	Electric Power	Thermal Station	Cheng-chou, Honan 34°45'N - 113°40'E	Dec- ember 1952	January 1954
Firm	Electric Power	Thermal Station	Ch'eng-tu, Szechwan 30°40'N - 104°04'E	Nov- ember 1956	N.A.
Firm	Electric Power	Thermal Station	Chu-chou, Hunan 27°56'N - 112°58'E	Jan- uary 1956	Partial oper- ation October 1957 (Plan)
Firm	Electric Power	Thermal Station No. 507	Chungking, Szechwan 29°34'N - 106°35'E	1952	March 1954
Firm	Electric Power	Thermal Station No. 2	Dairen, Liaoning 38°55'N - 121°39'E	Feb- ruary 1954	1955
Firm	Electric Power	Thermal Station	Fou-hsin, Liaoning 42°03'N - 121°39'E	Dec- ember 1951	May 1956

S-E-C-R-E-T

<u>Evaluation</u>	<u>Industry</u>	<u>Installation</u>	<u>Location</u>	<u>Date Started</u>	<u>Date Completed</u>
Firm	Electric Power	Thermal Station	Fu-shun, Liaoning 41°45'N - 124°00'E	July 1952	N.A.
Firm	Electric Power	Thermal Station No. 4	Harbin, Heilung- kiang 45°45'N - 126°39'E	1953	1957 (Plan)
Firm	Electric Power	Thermal Station	K'ai-yuan, Yunnan 23°42'N - 103°14'E	April 1955	Dec- ember 1956
Firm	Electric Power	Thermal Station	Kirin, Kirin 43°51'N - 126°33'E	Jan- uary 1955	Partial oper- ation July 1956
Firm	Electric Power	Thermal Station	Lan-chou, Kansu 36°03'N - 103°41'E	Dec- ember 1952	November 1957
Firm	Electric Power	Thermal Station	Peking, Hopeh 39°56'N - 116°24'E	July 1957	Partial oper- ation 1958 (Plan)
Firm	Electric Power	Thermal Station	Shih-chia-chuang, Hopeh 38°02'N - 114°28'E	April 1955	April 1956
Firm	Electric Power	Thermal Station No. 2	Sian, Shensi 34°16'N - 108°54'E	1950	October 1957 (Plan)
Firm	Electric Power	Thermal Station No. 3	Sian, Shensi 34°16'N - 108°54'E	Early 1956	First phase com- pleted summer 1957
Firm	Electric Power	Thermal Station No. 1	T'ai-yuan, Shansi 37°42'N - 112°30'E	October 1953	August 1956
Firm	Electric Power	Thermal Station	Urumchi, Sinkiang 43°48'N - 87°35'E	Before 1953	1957 (Plan)
Firm	Electric Power	Thermal Station	Wu-han, Hupeh 30°34'N - 114°13'E	June 1955	Partial oper- ation August 1957

- 11 -

S-E-C-R-E-T

S-E-C-R-E-T

<u>Evaluation</u>	<u>Industry</u>	<u>Installation</u>	<u>Location</u>	<u>Date Started</u>	<u>Date Completed</u>
Probable	Electric Power	Hydro Station	Kuan-t'ing, Hopeh (Approx.) 40°00'N - 115°45'E	May 1954	December 1955
Probable	Electric Power	Hydro Station	Tzu-ping-pu, Szechwan (Approx.) 28°46'N - 104°38'E	Prepara- tions under- way 1956	1959 (Plan)
Probable	Electric Power	Thermal Station	An-shan, Liaoning 41°07'N - 122°57'E	1954	March 1956
Probable	Electric Power	Thermal Station	Ch'ang-ch'un, Kirin 43°52'N - 125°21'E	Dec- ember 1953	Partial opera- tion June 1955
Probable	Electric Power	Thermal Station	Fu-la-erh-chi, Heilungkiang 47°15'N - 123°40'E	July 1953	Early 1955
Probable	Electric Power	Thermal Station No. 3	Pao-t'ou, Inner Mongolian Auton- omous Region 40°36'N - 110°03'E	Sep- tember 1954	April 1956
Probable	Electric Power	Thermal Station No. 5	T'ai-yuan, Shansi 37°42'N - 112°30'E	1955	N.A.
Possible	Electric Power	Hydro Station	Hsin-feng-chiang, Kwangtung (Approx.) 25°56'N - 115°06'E	Being plan- ned May 1957	N.A.
Possible	Electric Power	Hydro Station	Huang-t'ang-k'ou, Chekiang (Approx.) 29°45'N - 120°35'E	1951	Partial opera- tion 1957 (Plan)
Possible	Electric Power	Hydro Station	Ku-t'ien, Fukien 26°18'N - 118°42'E	1954	1962 (Plan)
Possible	Electric Power	Hydro Station	Mei-shan, Anhwei (Approx.) 32°32'N - 115°52'E	Under- way August 1955	N.A.

S-E-C-R-E-T

<u>Evaluation</u>	<u>Industry</u>	<u>Installation</u>	<u>Location</u>	<u>Date Started</u>	<u>Date Completed</u>
Possible	Electric Power	Hydro Station	Shih-lung-pa, Yunnan 24°51'N - 102°30'E	July 1954	April 1955
Possible	Electric Power	Hydro Station	Shih-tzu-t'an, Szechwan 29°32'N - 106°14'E	August 1954	April 1957
Possible	Electric Power	Hydro Station	Wu-la-po, Sinkiang (Approx.) 43°48'N - 87°35'E	October 1951	August 1955
Possible	Electric Power	Thermal Station	Ch'eng-tu, Szechwan 30°40'N - 104°04'E	October 1953	April 1955
Possible	Electric Power	Thermal Station	Hsiang-t'an, Hunan 27°51'N - 112°54'E	1953	1956 (Plan)
Possible	Electric Power	Thermal Station	Lo-yang, Honan 34°41'N - 112°28'E	Under- way 1954	1955
Possible	Electric Power	Thermal Station	Lo-yang, Honan 34°41'N - 112°28'E	Under- way 1956	October 1957 (Plan)
Possible	Electric Power	Thermal Station	Pao-t'ou, Inner Mongolian Auton- omous Region 40°36'N - 110°03'E	March 1956	N.A.
Possible	Electric Power	Thermal Station No. 2	Pao-t'ou, Inner Mongolian Auton- omous Region 40°36'N - 110°03'E	Under- way 1957	1957
Possible	Electric Power	Thermal Station	Tientsin, Hopeh 39°08'N - 121°39'E	June 1953	Partial operation May 1954 (Plan)
Firm	Coal In- dustry	Mine	Feng-feng, Hopeh (Approx.) 36°30'N - 114°00'E	Nov- ember 1955	Before Sep- tember 1957

S-E-C-R-E-T

S-E-C-R-E-T

<u>Evaluation</u>	<u>Industry</u>	<u>Installation</u>	<u>Location</u>	<u>Date Started</u>	<u>Date Completed</u>
Firm	Coal Industry	Mine (Hai-chou)	Fou-hsin, Liaoning 42°06'N - 121°42'E	1950	1956 (Plan)
Firm	Coal Industry	Mine (P'ing-an)	Fou-hsin, Liaoning 42°06'N - 121°42'E	1954	June 1957
Firm	Coal Industry	Mine (Hsing-an-tai)	Hao-kang, Heilung- kiang 47°25'N - 132°08'E	1950	July 1956
Firm	Coal Industry	Mine (Tung-shan)	Hao-kang, Heilungkiang 47°20'N - 130°18'E	1950	Sep- tember 1955
Firm	Coal Industry	Mine (Hsieh-chia- chi) No. 2 and No. 3	Huai-nan, Anhwei 32°38'N - 117°02'E	1954	July 1956
Firm	Coal Industry	Mine	Liao-yuan (Hsi-an), Kirin 42°54'N - 125°09'E	N.A.	By Jan- uary 1957
Firm	Coal Industry	Mine	P'ing-ting-shan, Honan 34°01'N - 113°49'E	1955	1959 (Plan)
Firm	Coal Industry	Mine	Shuang-liao (Liao-yuan), Kirin 43°30'N - 123°29'E	1950	December 1955
Firm	Coal Industry	Preparation Plant (2 plants)	Feng-feng, Hopeh (Approx.) 36°30'N - 114°00'E	Jan- uary 1957	N.A.
Firm	Coal Industry	Preparation Plant	Shuang-ya-shan, Heilungkiang (Approx.) 46°37'N - 131°10'E	May 1955	1958 (Plan)
Probable	Coal Industry	Mine (Ta-ma-ts'un)	Chiao-tso, Honan 35°15'N - 113°13'E	Sep- tember 1955	1956
Probable	Coal Industry	Mine (Hsiao-heng-shan)	Chi-hsi, Heilungkiang 45°15'N - 131°00'E	July 1950	1955

S-E-C-R-E-T

S-E-C-R-E-T

<u>Evaluation</u>	<u>Industry</u>	<u>Installation</u>	<u>Location</u>	<u>Date Started</u>	<u>Date Completed</u>
Probable	Coal Industry	Mine (Hsin-ch'iu)	Fou-hsin, Liaoning 42°06'N - 121°42'E	December 1954	August 1957 (Plan)
Probable	Coal Industry	Mine (Lao-hu-tai)	Fu-shun, Liaoning 41°53'N - 123°54'E	1953	1959 (Plan)
Probable	Coal Industry	Mine (Lung-feng)	Fu-shun, Liaoning 41°53'N - 123°54'E	1953	1957 (Plan)
Probable	Coal Industry	Mine (Tsai-tun)	Pen-ch'i, Liaoning 41°20'N - 123°45'E	April 1950	December 1954
Probable	Coal Industry	Mine	P'ing-hsiang, Kiangsi 27°37'N - 113°51'E	1954	N.A.
Probable	Coal Industry	Mine	Ta-t'ung, Shansi 40°06'N - 113°14'E	N.A.	N.A.
Probable	Coal Industry	Mine (Tao-yuan)	T'ung-ch'uan, Shensi 35°00'N - 109°07'E	May 1956	1958 (Plan)
Probable	Coal Industry	Mine (Wang-chia-ho)	T'ung-ch'uan, Shensi 35°00'N - 109°07'E	June 1955	1958 (Plan)
Probable	Coal Industry	Preparation Plant	Pen-ch'i, Liaoning 41°20'N - 123°45'E	Early 1955	End 1955
Probable	Coal Industry	Preparation Plant (2 plants)	P'ing-ting-shan, Honan 34°01'N - 113°49'E	N.A.	N.A.
Possible	Coal Industry	Mine	I-t'ang, Shansi (Approx.) 36°40'N - 110°30'E	1955	N.A.
Possible	Coal Industry	Mine	Ma-chia-kou, Hopeh 39°42'N - 118°13'E	December 1954	Still under construction July 1957
Possible	Coal Industry	Mine	Sian, Shensi 34°16'N - 108°54'E	N.A.	1958 (Plan)

S-E-C-R-E-T

S-E-C-R-E-T

<u>Evaluation</u>	<u>Industry</u>	<u>Installation</u>	<u>Location</u>	<u>Date Started</u>	<u>Date Completed</u>
Firm	Aircraft Industry	Aircraft Facility	Mukden, Liaoning 41°48'N - 123°27'E	N.A.	Before January 1957
Firm	Chemical Industry	Calcium Carbide Plant	Kirin, Kirin 43°51'N - 126°33'E	3rd quarter 1955	October 1957
Firm	Chemical Industry	Chemical Plant	Shih-chia-chuang, Hopeh 38°02'N - 114°28'E	June 1955	August 1956
Firm	Chemical Industry	Chemical Plant	T'ai-yuan, Shansi 37°42'N - 112°30'E	Under-way November 1957	N.A.
Firm	Chemical Industry	Dyestuffs Plant	Kirin, Kirin 43°51'N - 126°33'E	April 1955	October 1957
Firm	Chemical Industry	Nitrogenous Fertilizer Plant	Kirin, Kirin 43°51'N - 126°33'E	April 1955	October 1957
Firm	Chemical Industry	Nitrogenous Fertilizer Plant	Lan-chou, Kansu 36°03'N 103°41'E	March 1957	1959 (Plan)
Firm	Chemical Industry	Nitrogenous Fertilizer Plant	T'ai-yuan, Shansi 37°42'N - 112°30'E	Spring 1958 (Plan)	N.A.
Firm	Chemical Industry	Pharmaceutical Plant	Mukden, Liaoning 41°48'N - 123°27'E	August 1953	1956 (Plan)
Firm	Chemical Industry	Pharmaceutical Plant	T'ai-yuan, Shansi 37°42'N - 112°30'E	Spring 1958 (Plan)	N.A.
Firm	Chemical Industry	Synthetic Rubber (Neoprene) Plant	Ch'ang-shou, Szechwan 29°50'N - 107°04'E	Under-way July 1957	Second quarter 1958 (Plan)
Firm	Chemical Industry	Synthetic Rubber Plant	Lan-chou, Kansu 36°03'N - 103°41'E	N.A.	N.A.
Probable	Chemical Industry	Chemical Combine	Dairen, Liaoning 38°55'N - 121°39'E	1952	1956
Probable	Chemical Industry	Pharmaceutical Plant	Peking, Hopeh 39°56'N - 116°24'E	April 1955	1958 (Plan)

S-E-C-R-E-T

S-E-C-R-E-T

<u>Evaluation</u>	<u>Industry</u>	<u>Installation</u>	<u>Location</u>	<u>Date Started</u>	<u>Date Completed</u>
Probable	Chemical Industry	Synthetic Rubber Plant	Kirin, Kirin 43°51'N - 126°33'E	N.A.	N.A.
Possible	Chemical Industry	Pharmaceutical Plant No. 3	Shanghai, Kiangsu 31°14'N - 121°28'E	1952	Before January 1957
Firm	Non-ferrous Metals Industry	Aluminum Plant	Fu-shun, Liaoning 41°52'N - 123°53'E	1953	October 1956
Firm	Non-ferrous Metals Industry	Aluminum-Alloy Plant	Harbin, Heilung-kiang 45°47'N - 126°39'E	1954	1956
Firm	Non-ferrous Metals Industry	Tin Combine	Ko-chiu, Yunnan 23°23'N - 103°09'E	1951	1955
Possible	Non-ferrous Metals Industry	Copper Combine	Lan-chou, Kansu 36°03'N - 103°41'E	N.A.	N.A.
Possible	Non-ferrous Metals Industry	Copper Combine	T'ung-kuan-shan, Anhwei (Approx.) 30°56'N - 117°47'E	Underway March 1953	1957
Firm	Paper Industry	Paper Mill (Tsung-ho)	Chia-mu-ssu, Heilungkiang 46°50'N - 130°21'E	June 1953	September 1957
Firm	Petro-leum Industry	Refinery	Lan-chou, Kansu 36°03'N - 103°41'E	April 1956	1958 (Plan)
Firm	Petro-leum Industry	Refinery	Manas River, Sinkiang 45°38'N - 85°12'E	Survey underway December 1956	1962 (Plan)

S-E-C-R-E-T

S-E-C-R-E-T

<u>Evaluation</u>	<u>Industry</u>	<u>Installation</u>	<u>Location</u>	<u>Date Started</u>	<u>Date Completed</u>
Firm	Petro- leum In- dustry	Shale Oil Processing Plant	Fu-shun East, Liaoning 41°51'N - 123°52'E	July 1957	1960 (Plan)
Possible	Petro- leum In- dustry	Refinery	Tu-shan-tzu, Sinkiang 44°20'N - 84°51'E	1952	1956
Possible	Petro- leum In- dustry	Refinery	Yu-men, Kansu 39°42'N - 97°50'E	1954	Con- struc- tion contin- uing in 1958
Possible	Petro- leum In- dustry	Shale Oil Proces- sing Plant No. 2	Fu-shun, Liaoning 41°52'N - 123°53'E	May 1953	December 1954
Firm	Textile In- dustry	Flax Mill	A-ch'eng, Heilung- kiang 45°32'N - 126°59'E	1953	April 1955
Firm	Textile In- dustry	Flax Mill	Hu-lan, Heilung- kiang 45°59'N - 126°36'E	1953	April 1955
Firm	Textile In- dustry	Linen Mill	Harbin, Heilung- kiang 45°45'N - 126°39'E	July 1950	October 1952
Firm	Ship- build- ing In- dustry	Shipyard	Canton, Kwangtung 23°07'N - 113°15'E	Under- way 1957	1958 (Plan)
Firm	Ship- build- ing In- dustry	Shipyard (Hu-tung)	Shanghai, Kiangsu 31°14'N - 121°28'E	1953	Before Nov- ember 1957
Firm	Ship- build- ing In- dustry	Shipyard	Wu-han, Hupeh 30°32'N - 114°18'E	1953	Before Nov- ember 1957

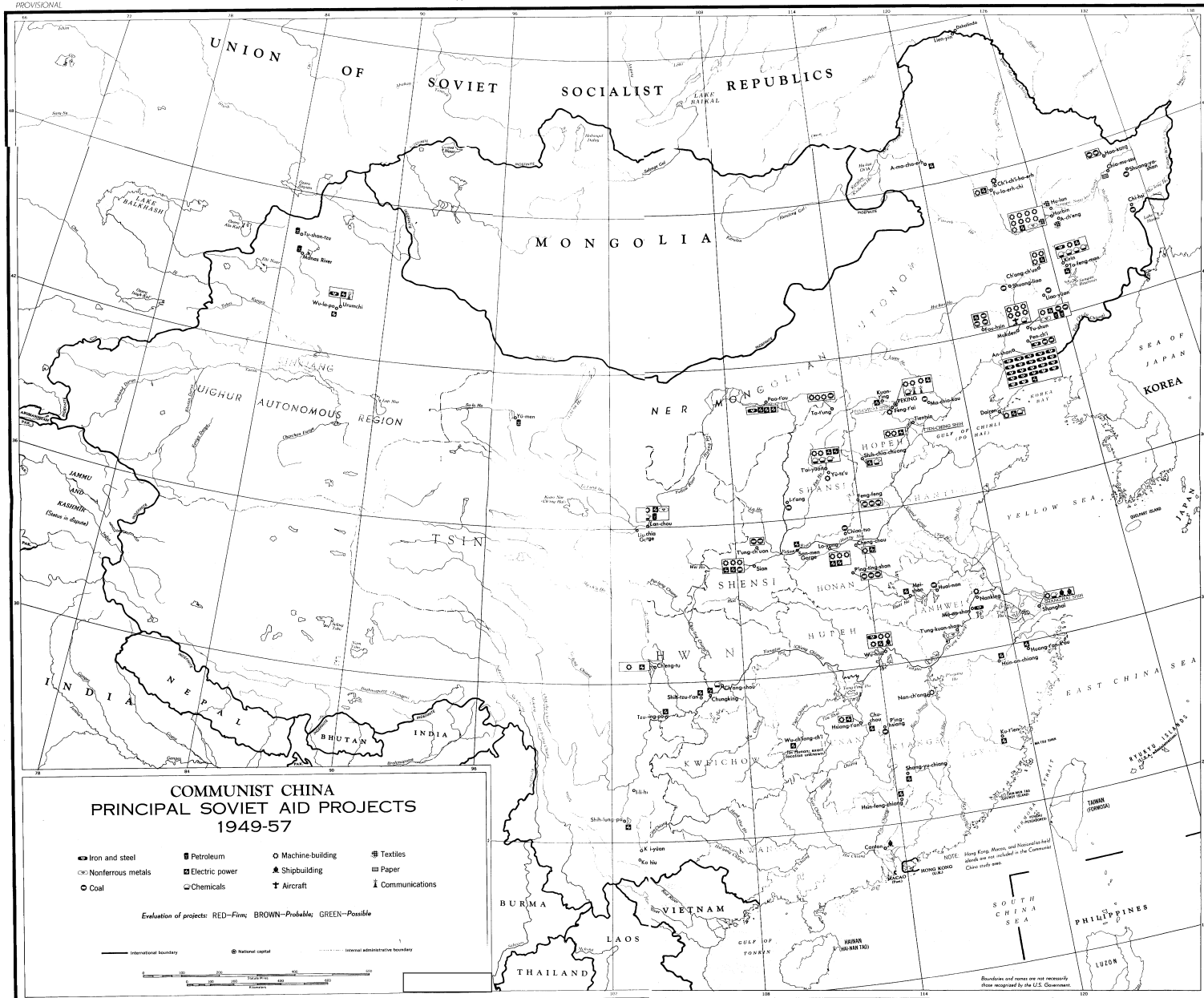
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S-E-C-R-E-T

<u>Evaluation</u>	<u>Industry</u>	<u>Installation</u>	<u>Location</u>	<u>Date Started</u>	<u>Date Completed</u>
Possible	Ship-build- ing In- dustry	Shipyards (Kiang-nan)	Shanghai, Kiangsu 31°14'N - 121°28'E	1953	Before Nov- ember 1957
Firm	Communi- cations Industry	Central Telegraph Building	Peking, Hopeh 39°56'N - 116°24'E	May 1956	1958 (Plan)
Possible	Communi- cations Industry	Telecommunications Building	Ch'eng-tu, Szechwan 30°40'N - 104°04'E	Under- way Feb- ruary 1957	Third quarter 1957 (Plan)
Possible	Communi- cations Industry	Telecommunications Building	Urumchi, Sinkiang 43°48'N - 87°35'E	Sep- tember 1956	N.A.
Possible	Communi- cations Industry	Television Station	Peking, Hopeh 39°56'N - 116°24'E	Under- way June 1957	Summer 1958 (Plan)

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